

Gouda Vuurvast VIBRON 180 RAPID Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Vibron 180 Rapid is a low cement castable based on corundum with a special addition to enable a faster heating schedule. The material is supplied in two components. The B component contains the amount of water needed. Remarks: Indicated values apply to vibrated products. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-VIBRON-180-RAPID-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	3.15 - 3.25 g/cc	0.114 - 0.117 lb/in ³	After drying at 110 ^o C
Particle Size	<= 5000 μ m	<= 5000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	90.0 - 110 MPa	13100 - 16000 psi	Cold Crushing Strength
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.93 - 2.13 W/m-K	13.4 - 14.8 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.95 - 2.15 W/m-K	13.5 - 14.9 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	2.12 - 2.32 W/m-K	14.7 - 16.1 BTU-in/hr-ft ² - ^o F	
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	
Maximum Service Temperature, Air	1870 ^o C	3400 ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1500 ^o C	@Temperature 2730 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	98 %	98 %	
Fe2O3	<= 0.20 %	<= 0.20 %	
SiO2	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	3150 kg	

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